

Title (en)

MICROMECHANICAL TUNING FORK ANGULAR RATE SENSOR

Title (de)

MIKROMECHANISCHER DREHGESCHWINDIGKEITSSENSOR NACH DEM STIMMGABEL-PRINZIP

Title (fr)

CAPTEUR DE VITESSE ANGULAIRE A DIAPASON DU TYPE MICROMECHANIQUE

Publication

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Application

EP 92919849 A 19920911

Priority

- US 9207685 W 19920911
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Abstract (en)

[origin: WO9305401A1] A micromechanical tuning fork gyroscope includes a suspended structure (14) comprising at least first and second vibratable structures (38, 40). Each vibratable structure is energizable to vibrate laterally, within a first plane, along an axis (42) normal to the rotation sensitive axis (44). The lateral or inplane vibration of the first and second vibratable structures effects simultaneous vertical or rotational movement of at least a portion of the suspended structure upon the occurrence of angular rotation of the gyroscope about the rotation sensitive axis. Vertical or rotational movement of the suspended structure is sensed by electrodes (70, 72) and a voltage proportional to the movement is generated, for providing an indication of angular rate of rotation detected by the gyroscope.

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G01C 19/56

IPC 8 full level

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